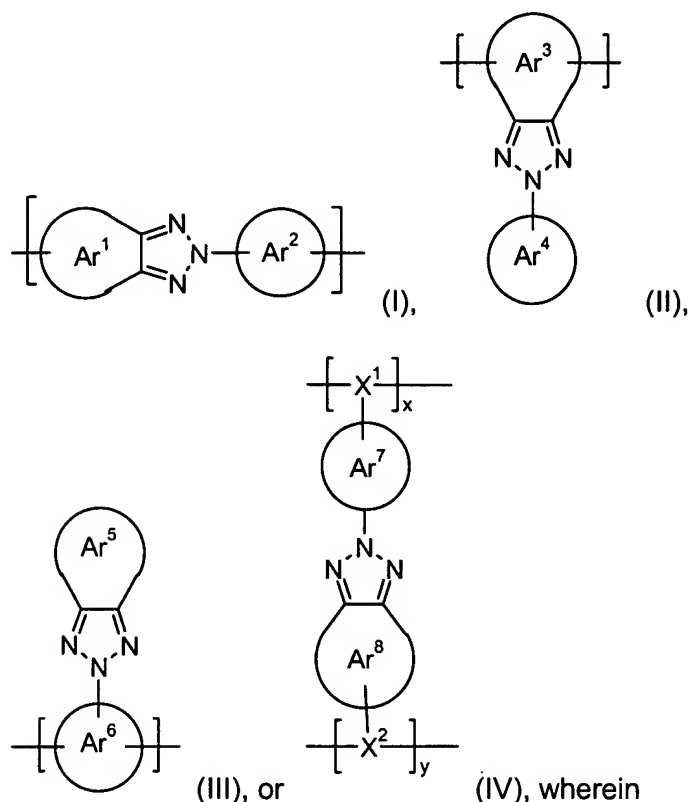


In the claims:

1. (currently amended): A polymer comprising a repeating unit of the formula

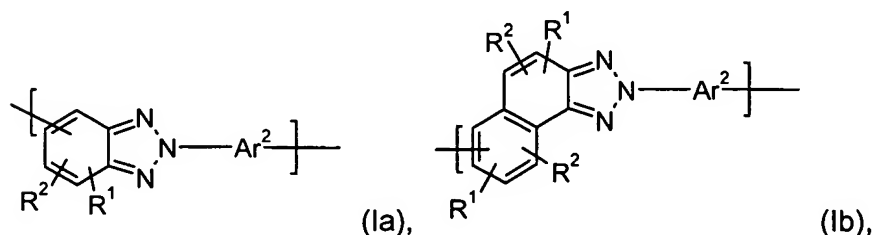


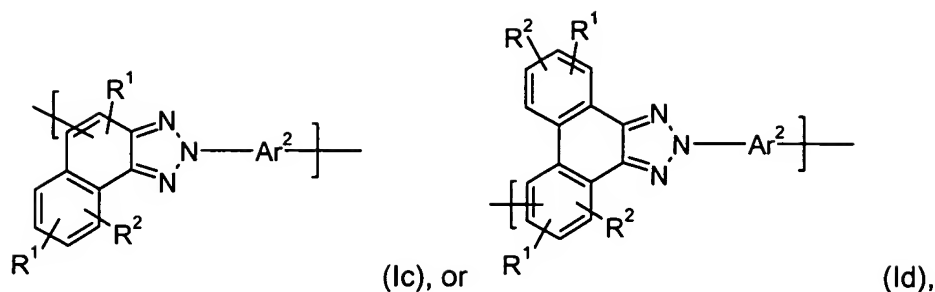
x and y are independently of each other 0 or 1,

X¹ and X² are independently of each other a divalent linking group,

Ar¹, Ar², Ar³, Ar⁴, Ar⁵, Ar⁶, Ar⁷ and Ar⁸ are independently of each other an aryl group, or a heteroaryl group, which can optionally be substituted, ~~especially a C₆-C₃₀ aryl group, or a C₂-C₂₆ heteroaryl group, which can optionally be substituted.~~

2. (currently amended): A polymer according to claim 1, comprising a repeating unit of the formula





wherein Ar^2 is as defined in claim 1,

R^1 and R^2 are independently of each other H, halogen, SO_3^- , C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{18} perfluoroalkyl, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by G, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, or $-CO-R^{28}$,

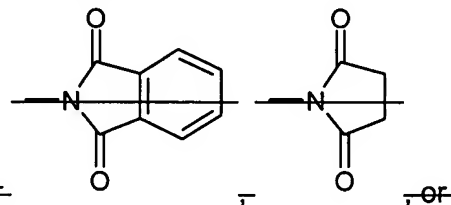
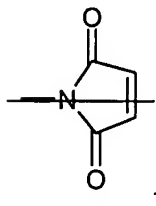
or two substituents R^1 and R^2 , which are adjacent to each other, are a group , or

D is $-CO-$; $-COO-$; $-S-$; $-SO-$; $-SO_2-$; $-O-$; $-NR^{25}-$; $-SiR^{30}R^{31}-$; $-POR^{32}-$; $-CR^{23}=CR^{24}-$; or $-C\equiv C-$; and

E is $-OR^{29}$; $-SR^{29}$; $-NR^{25}R^{26}$; $-COR^{28}$; $-COOR^{27}$; $-CONR^{25}R^{26}$; $-CN$; $-OCOOR^{27}$; or halogen; G is E, or C_1 - C_{18} alkyl, wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy; C_1 - C_{18} alkyl; or C_1 - C_{18} alkyl which is interrupted by $-O-$; or

R^{25} and R^{26} together form a five or six membered ring, in particular



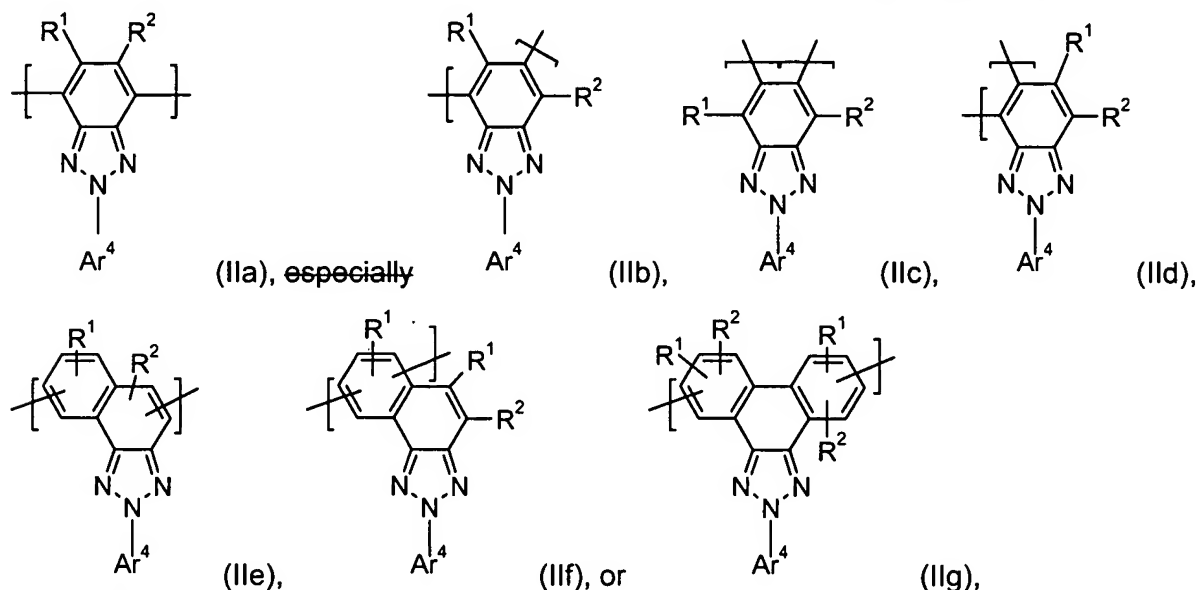
R^{27} and R^{28} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy; C_1 - C_{18} alkyl; or C_1 - C_{18} alkyl which is interrupted by $-O-$,

R^{29} is H; C_6 - C_{18} aryl; C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy; C_1 - C_{18} alkyl; or C_1 - C_{18} alkyl which is interrupted by $-O-$,

R^{30} and R^{31} are independently of each other C_1 - C_{18} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl, and

R^{32} is C_1 - C_{18} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl.

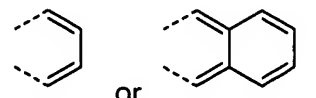
3. (currently amended): A polymer according to claim 1, comprising a repeating unit of the formula



wherein Ar^4 is as defined in claim 1,

R^1 and R^2 are independently of each other H, halogen, SO_3^- , C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{18} perfluoroalkyl, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by G, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, or $-CO-R^{28}$,

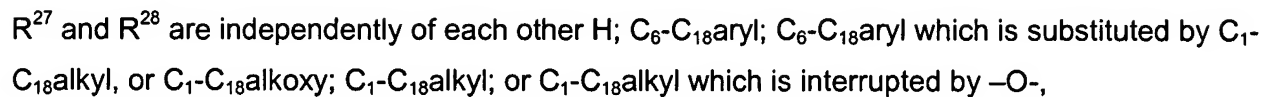
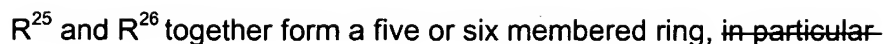
or two substituents R^1 and R^2 , which are adjacent to each other, are a group



D is $-CO-$; $-COO-$; $-S-$; $-SO-$; $-SO_2-$; $-O-$; $-NR^{25}-$; $-SiR^{30}R^{31}-$; $-POR^{32}-$; $-CR^{23}=CR^{24}-$; or $-C\equiv C-$; and

E is $-OR^{29}$; $-SR^{29}$; $-NR^{25}R^{26}$; $-COR^{28}$; $-COOR^{27}$; $-CONR^{25}R^{26}$; $-CN$; $-OCOOR^{27}$; or halogen; G is E, or C_1 - C_{18} alkyl, wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy; C_1 - C_{18} alkyl; or C_1 - C_{18} alkyl which is interrupted by $-O-$; or



R²⁹ is H; C₆-C₁₈aryl; C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl, or C₁-C₁₈alkoxy; C₁-C₁₈alkyl; or C₁-C₁₈alkyl which is interrupted by -O-,

R³⁰ and R³¹ are independently of each other C₁-C₁₈alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl, and

R³² is C₁-C₁₈alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl.

4. (currently amended): A polymer according to claim 3, wherein Ar⁴ is a group of formula


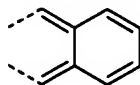


q is an integer from 1 to 10, especially 1, 2 or 3,

~~r is an integer of 0 to 10, in particular 0, 1, 2 or 3,~~

R³ to R⁸ are independently of each other H, halogen, SO₃⁻, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by G, C₂-C₂₀heteroaryl, C₂-

C₂₀heteroaryl which is substituted by G, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, or -CO-R²⁸, or

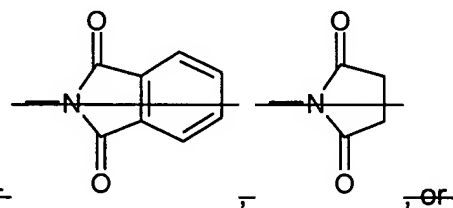
two substituents R³ to R⁸, which are adjacent to each other, are a group , or , and

R^{14'} and R^{15'} are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by G, C₂-C₂₀heteroaryl, or C₂-C₂₀heteroaryl which is substituted by G,

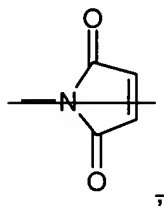
R¹⁶ is C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, which optionally can be substituted, wherein

D is -CO-; -COO-; -S-; -SO-; -SO₂-; -O-; -NR²⁵-; -SiR³⁰R³¹-; -POR³²-; -CR²³=CR²⁴-; or -C≡C-; and E is -OR²⁹; -SR²⁹; -NR²⁵R²⁶; -COR²⁸; -COOR²⁷; -CONR²⁵R²⁶; -CN; -OCOOR²⁷; or halogen; G is E, or C₁-C₁₈alkyl, wherein

R²³, R²⁴, R²⁵ and R²⁶ are independently of each other H; C₆-C₁₈aryl; C₆-C₁₈aryl which is substituted by C₁-C₁₈alkyl, C₁-C₁₈alkoxy; C₁-C₁₈alkyl; or C₁-C₁₈alkyl which is interrupted by -O-; or



R²⁵ and R²⁶ together form a five or six membered ring, in particular



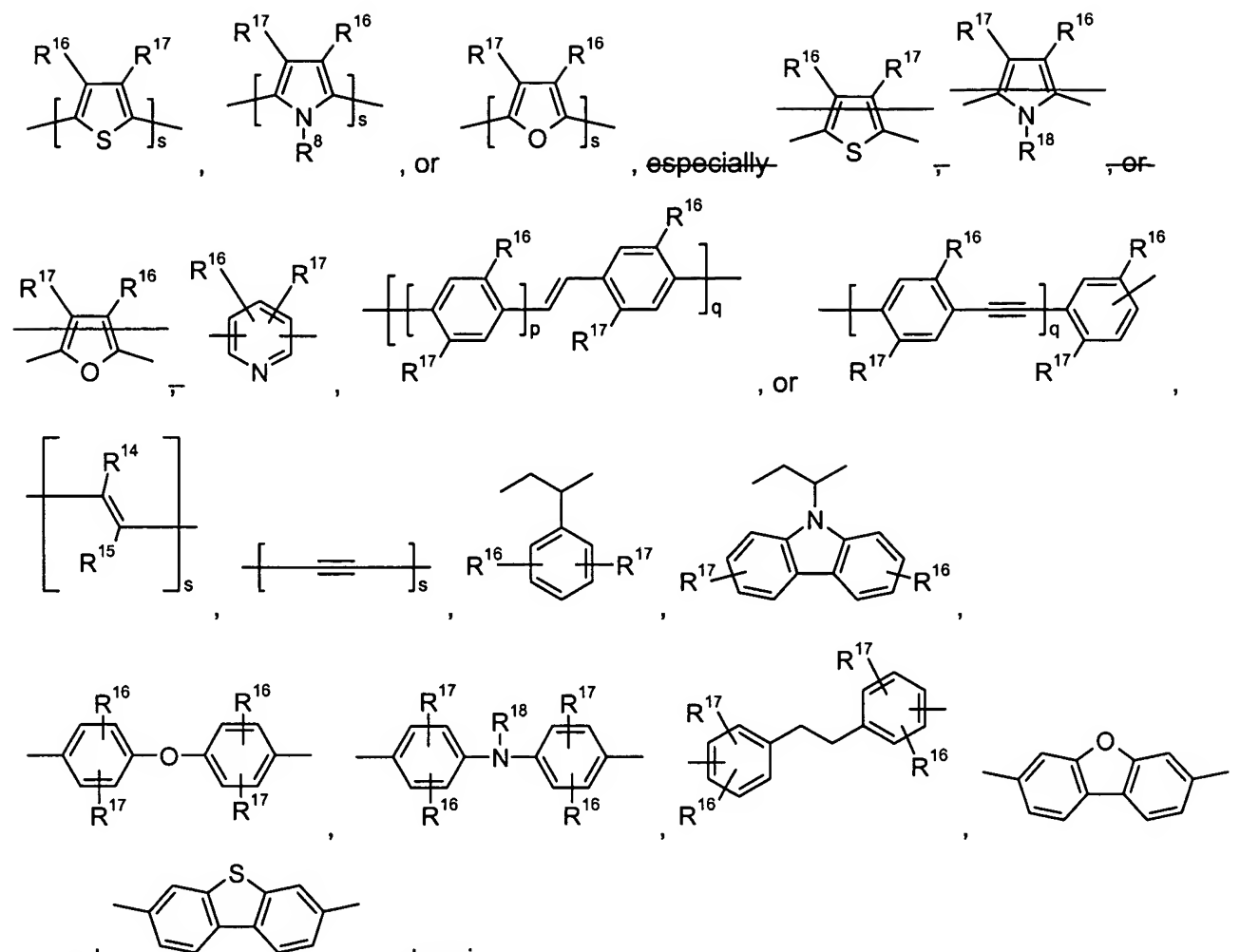
R²⁷ and R²⁸ are independently of each other H; C₆-C₁₈aryl; C₆-C₁₈aryl which is substituted by C₁-C₁₈alkyl, or C₁-C₁₈alkoxy; C₁-C₁₈alkyl; or C₁-C₁₈alkyl which is interrupted by -O-,

R²⁹ is H; C₆-C₁₈aryl; C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl, C₁-C₁₈alkoxy; C₁-C₁₈alkyl; or C₁-C₁₈alkyl which is interrupted by -O-,

R³⁰ and R³¹ are independently of each other C₁-C₁₈alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl, and

R³² is C₁-C₁₈alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl.

5. (currently amended): A polymer according to ~~any of claims 1 to 4~~ claim 1, comprising an additional repeating unit T which is selected from the group consisting of



p is an integer from 1 to 10, ~~especially 1, 2 or 3,~~

q is an integer from 1 to 10, ~~especially 1, 2 or 3,~~

s is an integer from 1 to 10, ~~especially 1, 2 or 3,~~

R^{14} and R^{15} are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, or C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by G,

R^{16} and R^{17} are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, C_2 - C_{20} heteroaryl, or C_2 - C_{20} heteroaryl which is substituted by G, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, or $-CO-R^{28}$,

R^{18} is H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy; C_1 - C_{18} alkyl; or C_1 - C_{18} alkyl which is interrupted by $-O-$;

R^{19} and R^{20} are independently of each other C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl

which is substituted by G, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl, or

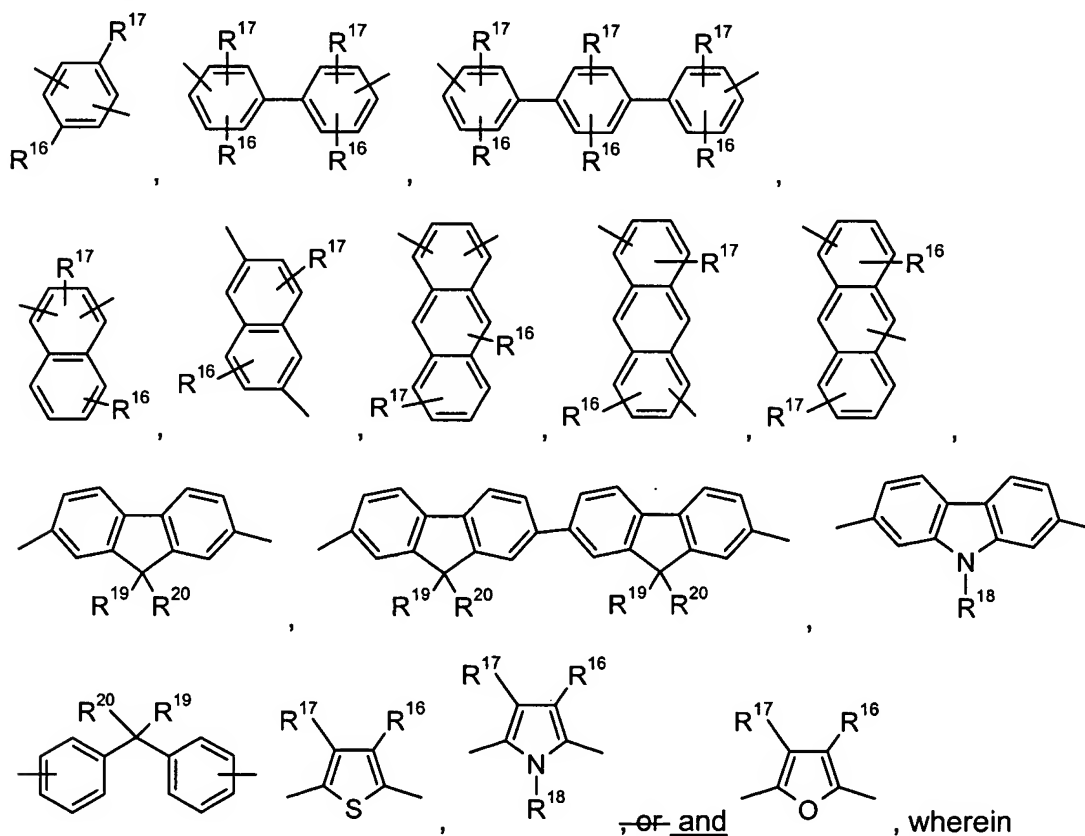
R¹⁹ and R²⁰ together form a group of formula =CR¹⁰⁰R¹⁰¹, wherein

R¹⁰⁰ and R¹⁰¹ are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by G, C₂-C₂₀heteroaryl, or C₂-C₂₀heteroaryl which is substituted by G, or

R¹⁹ and R²⁰ form a ring, ~~especially a five- or six-membered ring~~, which can optionally be substituted, and

D, E and G are as defined in claim 2.

6. (currently amended): A polymer according to claim 5, wherein T is selected from the group consisting of

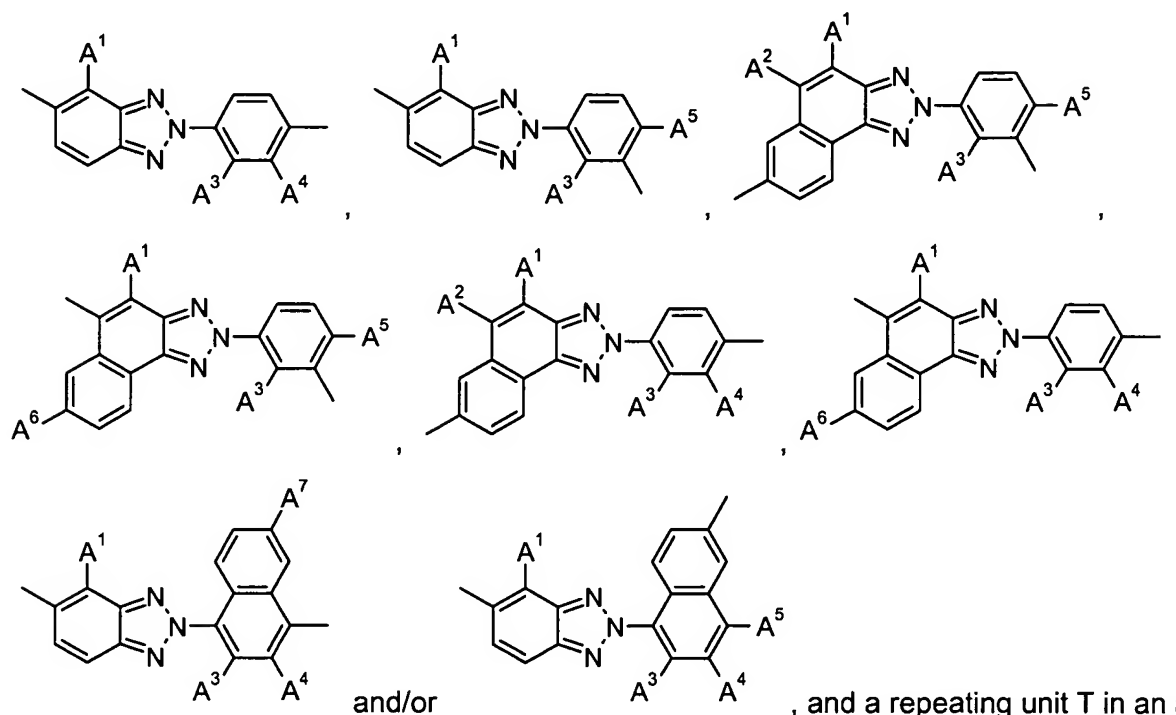


R¹⁸ is C₁-C₁₈alkyl, and

R¹⁹ and R²⁰ are independently of each other C₁-C₁₈alkyl, especially C₄-C₁₂alkyl, which can be interrupted by one or two oxygen atoms, or

R¹⁹ and R²⁰ form a five or six membered carbocyclic ring, which optionally can be substituted by C₁-C₄alkyl.

7. (currently amended): A polymer according to ~~any of claims 1 to 6~~ claim 1, comprising a repeating unit of the formula



, and a repeating unit T in an amount of 0 to 99.5 mol%, ~~especially in an amount of 40 to 80 mol%~~, wherein the sum of the repeating unit(s) and the co-monomer is 100 mol%, wherein

A¹ is hydrogen, or C₁-C₁₈alkyl,

A² is hydrogen, or C₁-C₁₈alkyl,

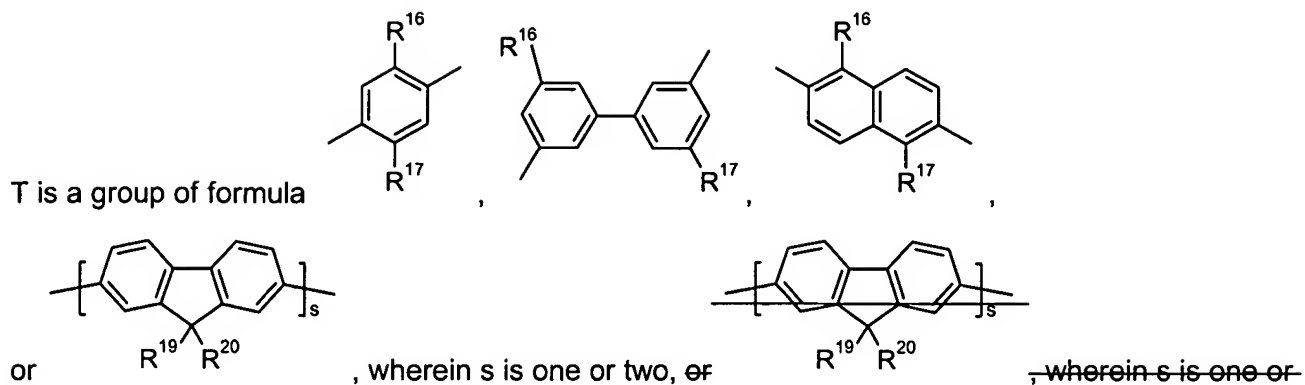
A³ is hydrogen, or C₁-C₁₈alkoxy, or C₁-C₁₈alkyl,

A⁴ is hydrogen, or C₁-C₁₈alkyl,

A⁵ is hydrogen, C₁-C₁₈alkyl, di(C₁-C₁₈alkyl)amino, or C₁-C₁₈alkoxy,

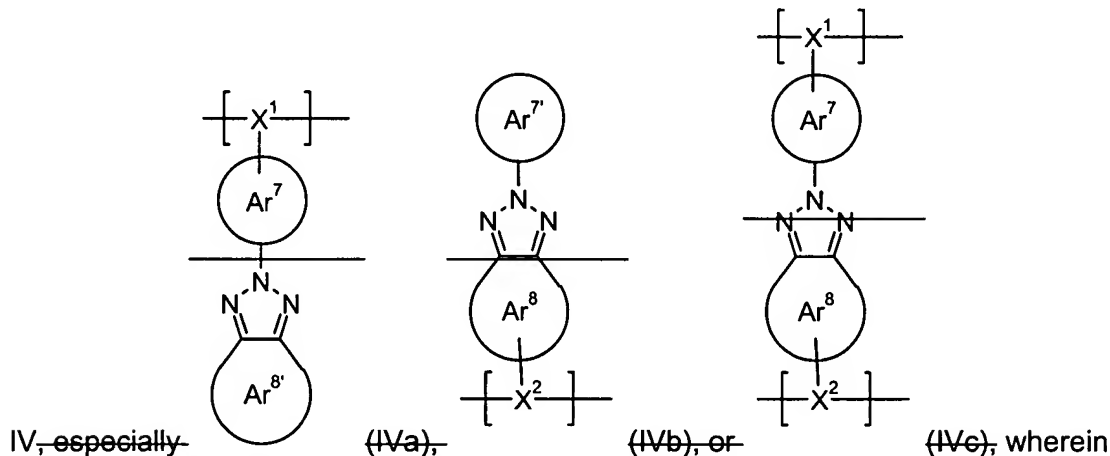
A⁶ is hydrogen, or C₁-C₁₈alkyl,

A⁷ is hydrogen, C₁-C₁₈alkyl or C₁-C₁₈alkoxy, and

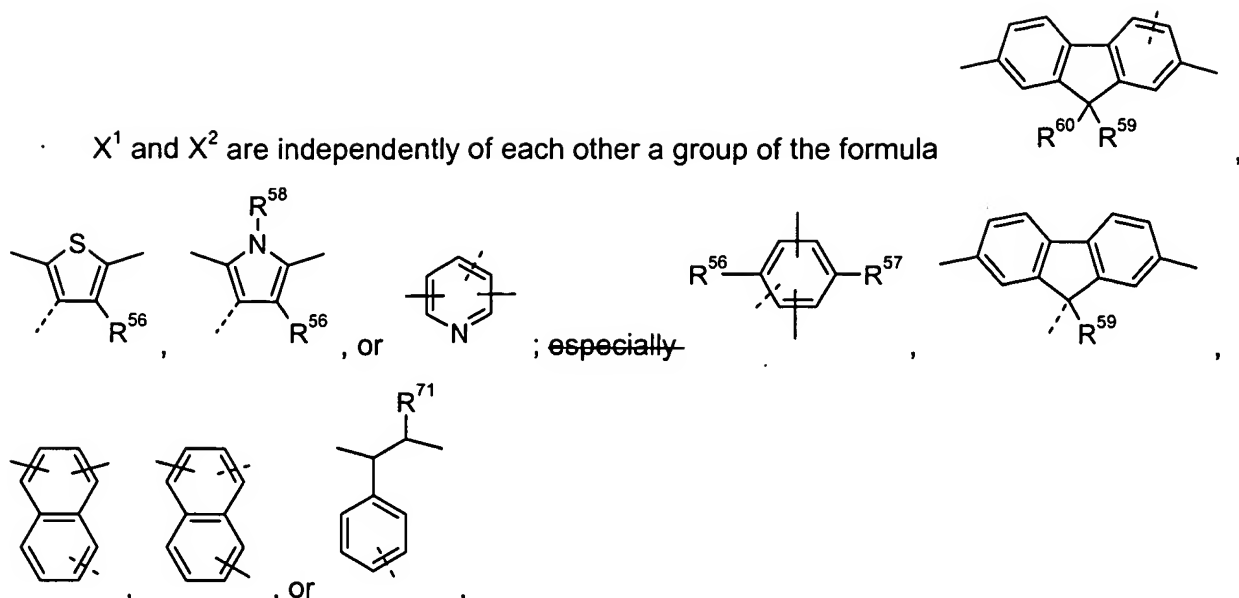


R^{16} and R^{17} are independently of each other C_1 - C_{18} alkyl, especially C_4 - C_{12} alkyl, especially hexyl, heptyl, 2-ethylhexyl, and octyl, which can be interrupted by one or two oxygen atoms, C_1 - C_{18} alkoxy, especially C_4 - C_{12} alkoxy, especially hexyloxy, heptyloxy, 2-ethylhexyloxy, and octyloxy, which can be interrupted by one or two oxygen atoms and R^{19} and R^{20} are independently of each other C_1 - C_{18} alkyl, especially C_4 - C_{12} alkyl, especially hexyl, heptyl, 2-ethylhexyl, and octyl, which can be interrupted by one or two oxygen atoms.

8. (currently amended): A polymer according to claim 1, comprising a repeating unit of the formula



Ar^7 , Ar^8 , Ar^9 and Ar^{10} are independently of each other a C_6 - C_{30} aryl group, or a C_2 - C_{26} heteroaryl group, which can optionally be substituted,



wherein the dotted line represent the bond to the benzotriazole unit,

R^{56} and R^{57} are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by G, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl,

R^{58} is H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, or C_7 - C_{25} aralkyl,

R^{59} and R^{60} are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by G, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by G, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl, or

R^{59} and R^{60} form a ring, ~~especially a five- or six-membered ring,~~ which can optionally be substituted,

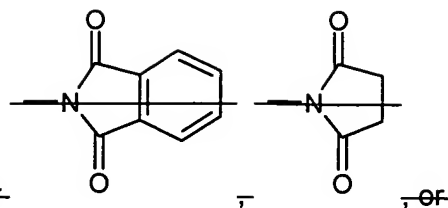
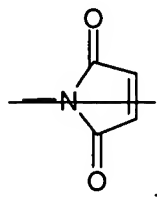
R^{71} is H, C_1 - C_{18} alkyl, $-C\equiv N$, $-CONR^{25}R^{26}$ or $-COOR^{27}$,

D is $-CO-$; $-COO-$; $-OCOO-$; $-S-$; $-SO-$; $-SO_2-$; $-O-$; $-NR^{25}-$; $-SiR^{30}R^{31}-$; $-POR^{32}-$; $-CR^{23}=CR^{24}-$; or $-C\equiv C-$; and

E is $-OR^{29}$; $-SR^{29}$; $-NR^{25}R^{26}$; $-COR^{28}$; $-COOR^{27}$; $-CONR^{25}R^{26}$; $-CN$; $-OCOOR^{27}$; or halogen; G is E, or C_1 - C_{18} alkyl, wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{18} alkyl, C_1 - C_{18} alkoxy; C_1 - C_{18} alkyl; or C_1 - C_{18} alkyl which is interrupted by $-O-$; or

R^{25} and R^{26} together form a five or six membered ring, in particular



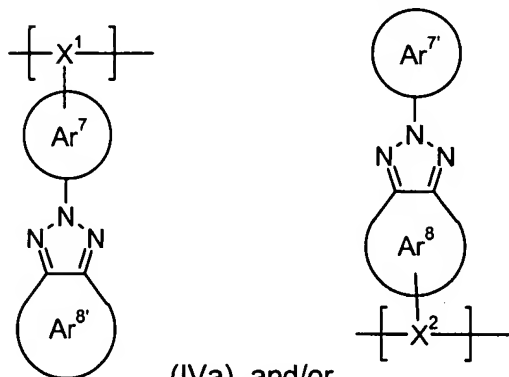
R^{27} and R^{28} are independently of each other H; C_6-C_{18} aryl; C_6-C_{18} aryl which is substituted by C_1-C_{18} alkyl, or C_1-C_{18} alkoxy; C_1-C_{18} alkyl; or C_1-C_{18} alkyl which is interrupted by $-O-$, and

R^{29} is H; C_6-C_{18} aryl; C_6-C_{18} aryl which is substituted by C_1-C_{18} alkyl, C_1-C_{18} alkoxy; C_1-C_{18} alkyl; or C_1-C_{18} alkyl which is interrupted by $-O-$,

R^{30} and R^{31} are independently of each other C_1-C_{18} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{18} alkyl, and

R^{32} is C_1-C_{18} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{18} alkyl.

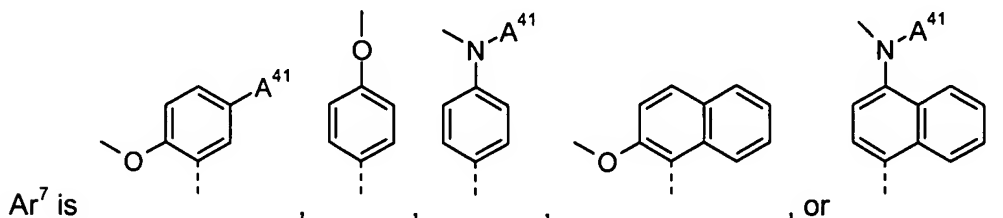
9. (currently amended): A polymer according to claim 8, comprising a repeating unit of the formula

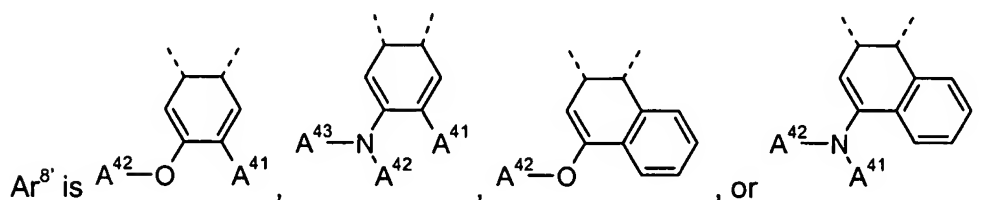
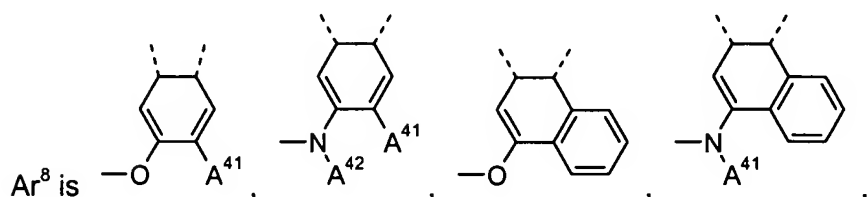
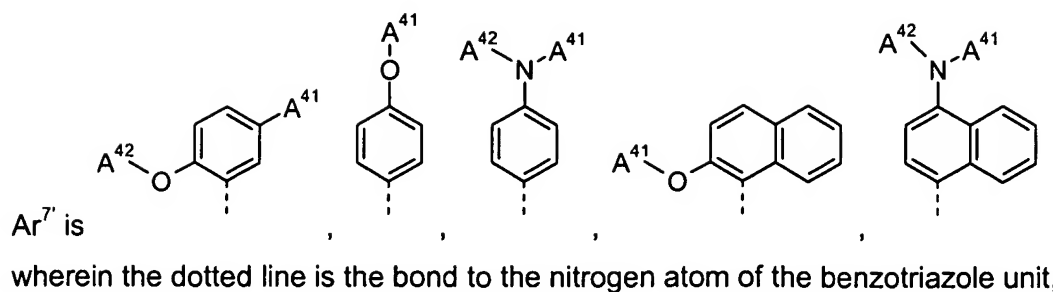


(IVa), and/or

(IVb), and a repeating unit T in an amount of 0 to 99.5 mol%,

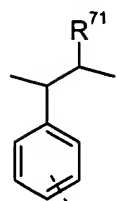
~~especially in an amount of 40 to 80 mol%,~~ wherein the sum of the repeating unit(s) and the co-monomer is 100 mol%, wherein





wherein the dotted lines are the bonds to the nitrogen atoms of the benzotriazole unit,
A⁴¹ is hydrogen, C₁-C₁₈alkoxy, or C₁-C₁₈alkyl, ~~such as methyl, ethyl, n-propyl, iso-propyl, n-butyl, isobutyl, sec-butyl, t-butyl, 2-methylbutyl, n-pentyl, isopentyl, n-hexyl, 2-ethylhexyl, or n-heptyl,~~
A⁴² is hydrogen, or C₁-C₁₈alkyl, ~~such as methyl, ethyl, n-propyl, iso-propyl, n-butyl, isobutyl, sec-butyl, t-butyl, 2-methylbutyl, n-pentyl, isopentyl, n-hexyl, 2-ethylhexyl, or n-heptyl,~~
A⁴³ is hydrogen, or C₁-C₁₈alkyl, ~~such as methyl, ethyl, n-propyl, iso-propyl, n-butyl, isobutyl, sec-butyl, t-butyl, 2-methylbutyl, n-pentyl, isopentyl, n-hexyl, 2-ethylhexyl, or n-heptyl,~~

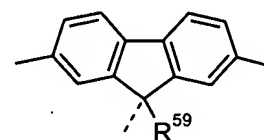
X¹ and X² are independently of each other a group of the formula



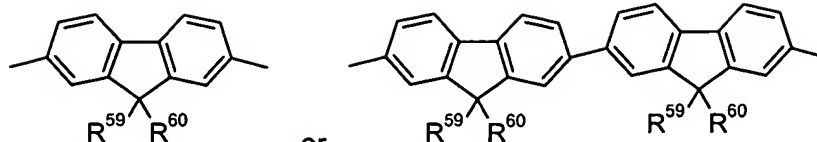
, wherein the dotted line represent the bond to the benzotriazole unit,

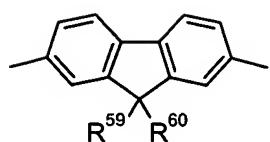
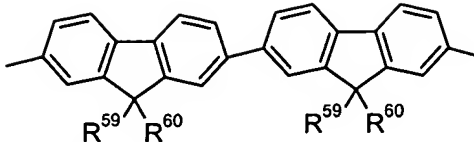
R⁷¹ is H, C₁-C₁₈alkyl, -C≡N, or -COOR²⁷, wherein

R²⁷ is H; or C₁-C₁₈alkyl, which can be interrupted by one or more oxygen atoms, ~~especially C₄-C₁₂alkyl, which can be interrupted by one or two oxygen atoms, and~~



, or



T is a group of formula , or , wherein R⁵⁹ and R⁶⁰ are independently of each other C₁-C₁₈alkyl, ~~especially C₄-C₁₂alkyl,~~ which can be interrupted by one or two oxygen atoms.

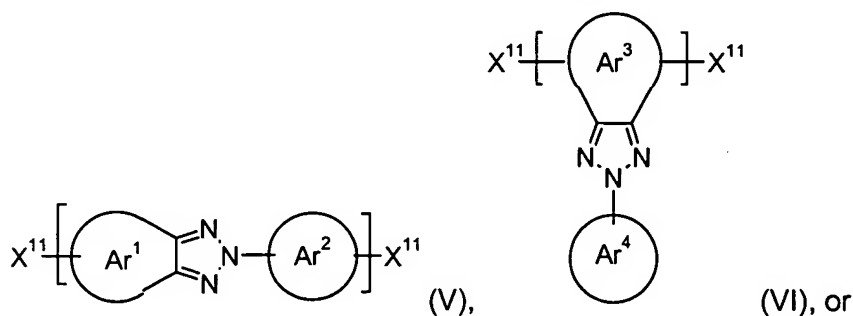
10. (currently amended): An optical device or a component therefore, comprising a substrate and a polymer according to ~~any of claims 1 to 9~~ claim 1.

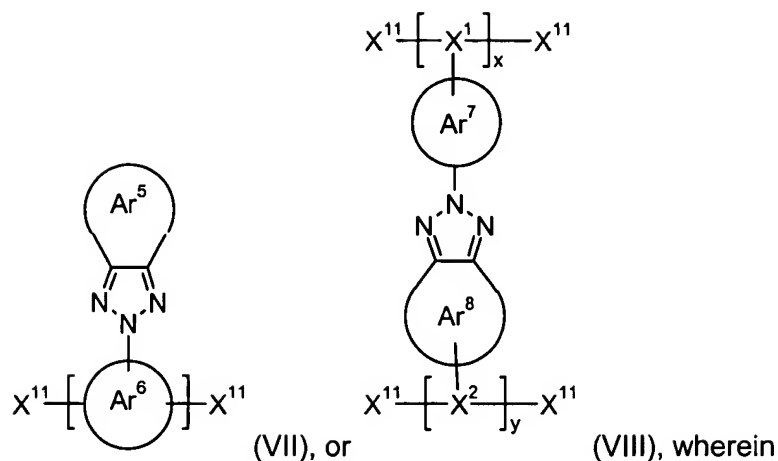
11. (original): An optical device according to claim 10, wherein the optical device comprises an electroluminescent device.

12. (currently amended): An optical device according to claim 11, wherein the electroluminescent device comprises

- (a) a reflective or transmissive anode
- (b) a reflective or transmissive cathode
- (c) an emissive layer comprising a polymer according to ~~any of claims 1 to 9~~ claim 1 located between the electrodes, and optionally
- (d) a charge injecting layer for injecting positive charge carriers, and
- (e) a charge injecting layer for injecting negative charge carriers.

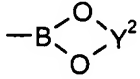
13. (currently amended): A monomer of the formula





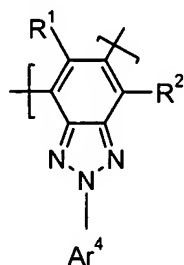
x and y are 0 or 1,

Ar¹, Ar², Ar³, Ar⁴, Ar⁵, Ar⁶, Ar⁷ and Ar⁸ are independently of each other an aryl group, or a heteroaryl group, which optionally can be substituted, ~~especially a C₆-C₃₀aryl group, or a C₂-C₂₆heteroaryl group,~~ which can optionally be substituted, and

X¹¹ is independently in each occurrence a halogen atom, or -B(OH)₂, -B(OY¹)₂ or , wherein Y¹ is independently in each occurrence a C₁-C₁₀alkyl group and Y² is independently in each occurrence a C₂-C₁₀alkylene group, ~~such as -CY³Y⁴-CY⁵Y⁶-, or -CY⁷Y⁸-CY⁹Y¹⁰-CY¹¹Y¹²-, wherein Y³, Y⁴, Y⁵, Y⁶, Y⁷, Y⁸, Y⁹, Y¹⁰, Y¹¹ and Y¹² are independently of each other hydrogen, or a which may be substituted by one or more C₁-C₁₀alkyl groups, especially -C(CH₃)₂C(CH₃)₂-, or -C(CH₃)₂CH₂C(CH₃)₂-.~~

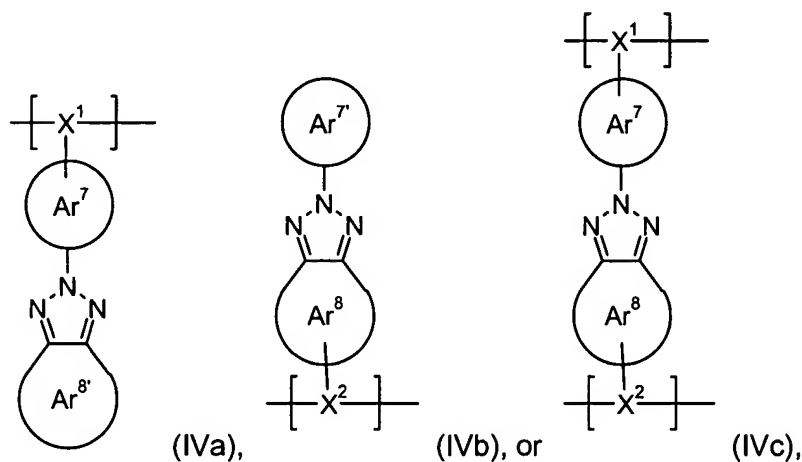
14. (new): A polymer according to claim 1, wherein Ar¹, Ar², Ar³, Ar⁴, Ar⁵, Ar⁶, Ar⁷ and Ar⁸ are independently of each other a C₆-C₃₀aryl group which can optionally be substituted, or a C₂-C₂₆heteroaryl group, which can optionally be substituted.

15. (new): A polymer according to claim 3, comprising a repeating unit of the formula



15. (new): A polymer according to claim 4, wherein p is 1, 2 or 3, q is 1, 2 or 3 and r is 0, 1, 2 or 3.

17. (new): A polymer according to claim 8, wherein the a repeating unit of the formula IV is selected from formula IVa, IVb and IVc



wherein

Ar^7 , Ar^8 and $Ar^{8'}$ are independently of each other a C_6 - C_{30} aryl group, or a C_2 - C_{26} heteroaryl group, which can optionally be substituted.

18. (new): A monomer according to claim 13, wherein Ar^1 , Ar^2 , Ar^3 , Ar^4 , Ar^5 , Ar^6 , Ar^7 and Ar^8 are independently of each other a C_6 - C_{30} aryl group which can optionally be substituted, or a C_2 - C_{26} heteroaryl group, which can optionally be substituted.